



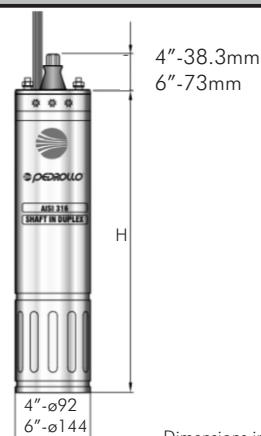
4PD



6PD



4PD Sacrificial Anode



Dimensions in mm

Pedrollo PD submersible motors are of the oil filled rewindable type designed to give exceptional reliability and efficiency in all borehole pumping applications. They are constructed principally from stainless steel AISI 316 making them robust and long lasting in harsh operating conditions. Features include;

- Oil filled type motor with FDA approved colourless oil
- Largely stainless steel AISI 316 construction with duplex shaft
- Oil lubricated thrust and radial bearings
- Reinforced netted NBR diaphragm for internal motor pressure compensation
- Standard NEMA flanges for use with both 4" and 6" pumps
- Sacrificial anode available on request for 4PD for extremely aggressive water and stray currents

**Protection:** IP68

**Insulation Class:** F

**Voltage:** 1x230V/ 240V,50Hz / 3x380V/ 415V,50Hz

### OPERATING PARAMETERS

**Max Voltage Variation:**  $\pm 10\%$

**Max Starts/Hr:** 20 - 4" and 30 - 6"

**Max Water Temperature:** 4PD (40°), 6PD (35°)

**Min Water Pass Flow Rate:** 8 cm/s

**Max Immersion Depth:** 200m

**Installation:** Vertical/horizontal with a tilt angle  $> 5^\circ$

### MOTOR DATA

#### SINGLE PHASE

| Motor |      | In   | Istart | PF   | Capacitor | Tail Cable      |   | H    | Weight |
|-------|------|------|--------|------|-----------|-----------------|---|------|--------|
| kW    | HP   | (A)  | (A)    | CosØ | µF        | mm <sup>2</sup> | m | (mm) | (Kg)   |
| 0.37  | 0.5  | 3.6  | 12     | 0.86 | 20        | 1.5             | 2 | 311  | 7      |
| 0.55  | 0.75 | 4.7  | 16     | 0.89 | 25        |                 |   | 331  | 8      |
| 0.75  | 1    | 5.9  | 19     | 0.91 | 35        |                 |   | 356  | 9      |
| 1.1   | 1.5  | 8.3  | 27     | 0.93 | 40        |                 |   | 396  | 11     |
| 1.5   | 2    | 10.7 | 35     | 0.93 | 60        |                 |   | 437  | 13     |
| 2.2   | 3    | 15.2 | 47     | 0.94 | 75        |                 |   | 492  | 15     |

#### THREE PHASE

| Motor |      | In   | Istart | PF     | Tail Cable      |     | H    | Weight |
|-------|------|------|--------|--------|-----------------|-----|------|--------|
| kW    | HP   | (A)  | (A)    | (CosØ) | mm <sup>2</sup> | m   | (mm) | (Kg)   |
| 0.37  | 0.5  | 1.8  | 6      | 0.52   | 1.5             | 2   | 311  | 7      |
| 0.55  | 0.75 | 2.0  | 0      | 0.63   |                 |     | 331  | 8      |
| 0.75  | 1    | 2.5  | 10     | 0.71   |                 |     | 356  | 9      |
| 1.1   | 1.5  | 3.4  | 16     | 0.79   |                 |     | 371  | 9      |
| 1.5   | 2    | 4.8  | 18     | 0.66   |                 |     | 396  | 11     |
| 2.2   | 3    | 6.1  | 40     | 0.73   |                 |     | 437  | 13     |
| 3.0   | 4.0  | 7.1  |        | 0.79   | 2               | 3.6 | 450  | 14     |
| 4.0   | 5.5  | 9.2  | 50     | 0.77   |                 |     | 505  | 16     |
| 5.5   | 7.5  | 12.3 | 66     | 0.82   |                 |     | 590  | 20     |
| 7.5   | 10   | 16.4 | 89     | 0.76   |                 |     | 800  | 30     |
| 4.0   | 5.5  | 9    | 47     | 0.86   |                 |     | 595  | 33     |
| 5.5   | 7.5  | 13   | 66     | 0.84   |                 |     | 625  | 37     |
| 7.5   | 10   | 17   | 80     | 0.83   | 4               | 3   | 660  | 38     |
| 9.2   | 12.5 | 22   | 98     | 0.77   |                 |     | 700  | 43     |
| 11    | 15   | 24   | 124    | 0.82   |                 |     | 765  | 52     |
| 15    | 20   | 32   | 158    | 0.86   |                 |     | 820  | 58     |
| 18.5  | 25   | 39   | 230    | 0.84   |                 |     | 883  | 63     |
| 22    | 30   | 47   | 256    | 0.83   | 8               | 4   | 953  | 79     |
| 30    | 40   | 64   | 349    |        |                 |     | 1098 | 92     |
| 37    | 50   | 78   | 400    |        |                 |     | 1233 | 93     |

### MATERIAL SPECIFICATION

| Component               | Material                              |
|-------------------------|---------------------------------------|
| Motor shell             | 316 stainless steel                   |
| Sand guard              | NBR                                   |
| Cable connector         | LDPE + TPO + AISI304                  |
| Upper end bracket cover | 4"-304 stainless steel                |
| Upper end bracket       | Cast Iron with cataphoresis treatment |
| Mechanical Seal         | Ceramic/Graphite                      |
| Shaft                   | Duplex                                |
| Lower end bracket       | 4"-Stainless steel, 6"-Cast Iron      |
| Winding                 | Copper                                |
| Lower end bracket cover | AISI 304 stainless steel              |
| Diaphragm               | NBR                                   |